



# SEQUENCE LISTING

<110> GILL, Peter  
HUSSAIN, Javaid  
LONG, Adam

<120> Improvements in and relating to analysis of DNA

<130> 7500.331USC1

<140> 10/034,692

<141> 2001-12-27

<150> PCT/GB00/02795

<151> 2000-07-24

<150> GB9917307.2

<151> 1999-07-23

<150> GB0009187.6

<151> 2000-04-14

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer sequence designed to act as a molecular beacon and referred to at page 13 of the application.

<400> 1

acgcgctctc ttcttctttt gcgcg

25

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<221> unsure

<222> 20

<223> Description of Artificial Sequence: An artificial universal reporter primer forward sequence designed to optimally prime at 60 degrees C, page 29. n = a or g or c or t

<400> 2

cgacgtggtg gatgtgctan

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at approximately 60 degrees C, page 29.

<400> 3

tgacctggct gactcgactg

20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial universal primer reverse sequence designed to optimally prime at 60 degrees C, page 30.

<400> 4

tgccgtggct gacctgagac

20

<210> 5

<211> 20

<212> DNA

<213> Homo sapiens

<400> 5

gtattttcgt ctggggggta

20

<210> 6

<211> 21

<212> DNA

<213> Homo sapiens

<400> 6

gtctgtcttt gattcctgcc c

21

<210> 7

<211> 20

<212> DNA

<213> Homo sapiens

<400> 7

tttgattcct gcctcatccc

20

<210> 8

<211> 20

<212> DNA

<213> Homo sapiens

<400> 8

atattacagg cgaacatacc

20

<210> 9  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 9  
gctttagga cataataata acaatta

27

<210> 10  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 10  
cagagatgtg tttaagtgt gt

22

<210> 11  
<211> 19  
<212> DNA  
<213> Homo sapiens

<220>  
<223> k = g or t

<400> 11  
accagctttg ccagttcck

19

<210> 12  
<211> 16  
<212> DNA  
<213> Homo sapiens

<220>  
<223> m = c or a

<400> 12  
ttccgtgggt gtggcm

16

<210> 13  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 13  
ggcagagcga ctaaaagcaa a

21

<210> 14  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc  
forward primer with an artificial universal primer  
tag to detect a SNP polymorphism at Gc1s/1f, page

47.

<400> 14  
cgacgtggtg gatgtgctag gttccgtggg tgtggcc 37

<210> 15  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A Human Gc reverse primer with an artificial universal primer tag to detect a SNP polymorphism at Gc1s/1f, page 47.

<400> 15  
tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a 41

<210> 16  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial universal molecular beacon primer sequence designed to detect universal primer 9G polymorphism, page 47.

<400> 16  
acgcgctctc ttcttctttt gcgcgcgacg tgggtgatgt gctag 45

<210> 17  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial reverse primer sequence designed to detect universal reverse 11 primer sequence, page 47.

<400> 17  
tgacgtggct gacctgagac 20

<210> 18  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gc1s/1f, page 48.

<400> 18  
cgacgtggtg gatgtgctag accagctttg ccagttccg 39

<210> 19  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 19  
cgacgtggtg gatgtgcttc accagctttg ccagttcct 39

<210> 20  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 20  
cgacgtggtg gatgtgctag gttccgtggg tgtggcc 37

<210> 21  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc forward primer attached to an artificial universal primer tag to detect a SNP polymorphism at Gcls/lf, page 48.

<400> 21  
cgacgtggtg gatgtgcttc gttccgtggg tgtggca 37

<210> 22  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human Gc reverse primer attached to an artificial universal primer tag to detect SNP polymorphisms at Gcls/lf, page 48.

<400> 22

tgacgtggct gacctgagac ggcagagcga ctaaaagcaa a

41

<210> 23

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9G polymorphism.

<400> 23

acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gctag

45

<210> 24

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial molecular beacon forward primer attached to a universal primer tag to detect universal primer 9C polymorphism.

<400> 24

acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gcttc

45

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 25

tgacgtggct gacctgagac

20

<210> 26

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: A Human Amelogenin sequence forward primer attached to an artificial universal sequence to detect Amelogenin X polym.

<400> 26

cgacgtggtg gatgtgcttc tgagccaatg gtaaacctgc c

41

<210> 27  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A Human  
Amelogenin sequence forward primer attached to an  
artificial universal sequence to detect Amelogenin  
Y polym.

<400> 27  
cgacgtggtg gatgtgctag tgagccaatg gtaaacctgc a 41

<210> 28  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> 30  
<223> Description of Artificial Sequence: A Human  
Amelogenin sequence reverse primer attached to an  
artificial universal sequence to detect Amelogenin  
X/Y polymorphism. n = i

<400> 28  
tgacgtggct gacctgagac cataggaagn gtactggtga gaaaca 46

<210> 29  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial  
molecular beacon forward primer attached to a  
universal primer tag to detect universal primer 9G  
polymorphism.

<400> 29  
acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gctag 45

<210> 30  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial  
molecular beacon forward primer attached to a  
universal primer tag to detect universal 9C  
polymorphism, page 49.

<400> 30  
acgcgctctc ttcttctttt gcgcgcgacg tggatgatgt gcttc 45

<210> 31  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial reverse universal primer designed to detect universal 11 sequence, page 48.

<400> 31  
tgacgtggct gacctgagac 20

<210> 32  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial forward universal primer attached to human Gc1s sequence, page 57.

<400> 32  
ctagctgggtg gctgtgctag gttccgtggg tgtggcc 37

<210> 33  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: An artificial reverse universal primer attached to human Gc1s/1f polymorphisms, page 57.

<400> 33  
ctagctgggtg gctgtgctag ggcagagcga ctaaaagcaa a 41

<210> 34  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: A human alpha-1- antitrypsin forward sequence attached to an artificial universal primer to detect alpha-1.M1S polym.

<400> 34  
ctagctgggtg gctgtgctag aggggaaact acagcacctg ga 42

<210> 35  
<211> 42



<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: A human  
         alpha-1- antitrypsin foward sequence attached to  
         an artificial universal primer to detect alpha-1.S  
         polym, Fig 11.  
  
 <400> 35  
 ctagcctggt gtgtggctag aggggaaact acagcacctg gt 42  
  
 <210> 36  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: A human  
         alpha-1- antitrypsin reverse sequence attached to  
         an artificial universal primer to detect  
         alpha-1.M1S polym.  
  
 <400> 36  
 ctagctgctg tgggtggctag tgggtgatgat atcgtgggtg agt 43  
  
 <210> 37  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 37  
 cctgaagcca cacccacgga actggca 27  
  
 <210> 38  
 <211> 18  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 38  
 agttccgtgg gtgtggcc 18  
  
 <210> 39  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 39  
 cctgaggcca cacccacgga actggca 27  
  
 <210> 40  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 40

cctgaggcca cacccaagga actggca

27

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Self  
complimentary universal forward reporter primer  
artificial sequence, Figure 25c.

<400> 41

ctagctggtg gctgtgctag

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Self  
complimentary universal reverse reporter primer  
artificial sequence, Figure 25c.

<400> 42

ctagctggtg gctgtgctag

20